

**AMENDMENTS TO THE CLAIMS:**

**Claims 1-47 (Canceled)**

48. **(Original)** A pulsed electromagnet assembly, comprising:  
a power supply comprising at least one battery;  
a switching circuit; and  
the electromagnet adapted to magnetize a permanent magnet precursor material.
49. **(Original)** The assembly of claim 48, wherein the electromagnet comprises a coil which contains no core, and which is adapted to fit around a body of the permanent magnet precursor material, such that the body acts as a core of the pulsed electromagnet during magnetization.
50. **(Original)** The assembly of claim 49, further comprising:  
a casing containing the coil; and  
a cooling fluid reservoir in communication with the casing.
51. **(Original)** The assembly of claim 49, wherein the power supply contains a plurality of batteries connected in series in a loop containing the coil.
52. **(Original)** The assembly of claim 49, wherein the power supply contains a plurality of batteries connected in parallel in a loop containing the coil.
53. **(Original)** The assembly of claim 49, wherein the power supply contains a plurality of batteries connected in series and in parallel in a loop containing the coil.
54. **(Original)** The assembly of claim 49, further comprising a diode connected in parallel with the coil.
55. **(Original)** The assembly of claim 54, further comprising a Coulomb resistance connected in series with the diode.

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56. **(Original)** A kit for magnetizing a permanent magnet precursor material, comprising:

the pulsed electromagnet assembly of claim 48; and  
a heating element adapted to heat the permanent magnet precursor material.

57. **(Original)** The kit of claim 56, wherein the heating element comprises at least one of a heating tape, surface heaters, a furnace and a heating lamp.

58. **(Original)** A pulsed electromagnet assembly, comprising:  
a power supply comprising at least one battery;  
a first means for magnetizing a permanent magnet precursor material;  
and  
a second means for switching the first means on and off.

59. **(Original)** The assembly of claim 58, further comprising a third means for heating the permanent magnet precursor material during magnetization.

60. **(Canceled)**